CC2000

Control Center Over the NET™ Management Software

ALTUSEN™
Enterprise KVM Solutions by ATEN

Physical server sales diminished in 2009 as a result of an increased migration to virtual server systems. Recently, however, due to older equipment replacement, and a greater emphasis on cloud computing, the server market has rebounded, which has resulted in larger, more sophisticated, data centers than ever before. ATEN's CC2000 Management Software – updated with new, powerful, features including VMware support – provides IT administrators with the tools they need to access and control their entire distributed data center environment. Offering convenient, economical, centralized management of all their IT devices, the CC2000 Management Software puts administrators in complete control of their remote data centers and branch offices no matter where in the world they are deployed.

When used in conjunction with any Over the NET product (KVM Over the NET™, Serial Over the NET™, Power Over the NET™), the CC2000 management software allows IT administrators to remotely monitor and control all installed devices, including blade servers and virtual machines. The CC2000's Primary-Secondary architecture safeguards data transmissions through built-in redundancy factors, including automated database backup of Primary, Secondary servers and devices in addition to real-time database updating. Redundancy ensures that should any of the CC2000 servers go down, the CC2000 management system will keep functioning, since a redundant Secondary unit provides the required services until the Primary unit comes back up. This double redundancy feature, in which each Secondary server can have its own redundant Secondary server, ensures smooth, management of all your devices.

The CC2000's patented Panel DynaArray™ mode lets administrators view the output of multiple ports in individual panels on the same screen. Under this mode, the video output of each selected device displays in its own panel on the screen. To access and manage the device, simply move the mouse pointer over its panel and click.

A strong centralized management solution provides benefits in many ways:

- It lets you quickly and smoothly take control of your installation through a single portal that is accessible at any time from anywhere in the world.
- It enables a faster response to mission-critical data center emergencies.
- It eliminates the distance restrictions of traditional server room management

FEATURES

Centralized Management

- Complete control of your enterprise – consolidates the management of all ATEN/ALTUSEN devices
- Single portal, single sign-on, single IP address to securely access every device on the installation
- All devices are integrated into a single tree view for centralized access, administration, and management of a worldwide network from anywhere at anytime
- Primary/Secondary topology provides redundancy – including real-time database updating
- Double Redundancy- the CC2000 not only provides a redundant Secondary server for the Primary server, each Secondary server can also have a redundant Secondary server.
- Aggregate Device-The KVM port, serial port and power outlet of an IT device can be associated and presented in the same web page, which enables IT administrators to completely control an IT device from a single user interface
- Multiplatform installation support: Windows / Linux
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera, Mozilla, Netscape
- Email notification of specified system events
- Automatic scheduling of system, configuration, and maintenance tasks
- Logging and auditing of system events for the CC2000 and managed devices
- Session logs provide serial device keystroke history
- ATEN/ALTUSEN device auto-discovery with device-availability status, and alarms
- View, manage, and terminate active user sessions in real time
- User level management identification
- Browser-based GUI offers a multilanguage interface to minimize user training time and increase productivity
- Generic Device support – users can be redirected to 3rd party data center devices from the CC2000
- Flexible logging and report options
- Blade server support ***NEW!***
- Supports single sign-on for Dell DRAC 5, iDRAC 6, IBM RSA II, HP iLO 2, Dell CMC, IBM AMM, and HP OA ***NEW!***
- Integrates all access right – Web, SSH/Telnet, VNC/RDP, SPM, KVM, serial, power to target device ***NEW!***
- VMware Virtual Infrastructure includes Center Servers, ESX Servers and Virtual Machines ***NEW!***
- Panel DynaArray™ – view the output of multiple ports in individual panels on the same screen ***NEW!***
- Power association with ATEN/Altusen PDU enables the switch's KVM ports to associate with the PDU's power outlets for remote power management of the servers from the switch's interface ***NEW!***
- Web-based wizard to quickly install devices ***NEW!***
- Primary can pull device port names from Secondary servers. Primary can push device port names to Secondary server***NEW!***
- Advanced search function for log entries ***NEW!***
- Strong session management/Integrates multi-session (ATEN iKVM, Blade server, VMware, PDU, and so on) ***NEW!***
- License Saving-use Aggregate Devices to consolidate multiple ports into a single node license ***NEW!***
- Data export /import to remote server or local in real time or on schedule. AES/DES encryption support for data export ***NEW!***
- OOBC, PAP and CHAP authentication ***NEW!***
- IPv6 support ***NEW!***
- NTS support- allow your device to get the accurate time from a server that the administrator assigns ***NEW!***

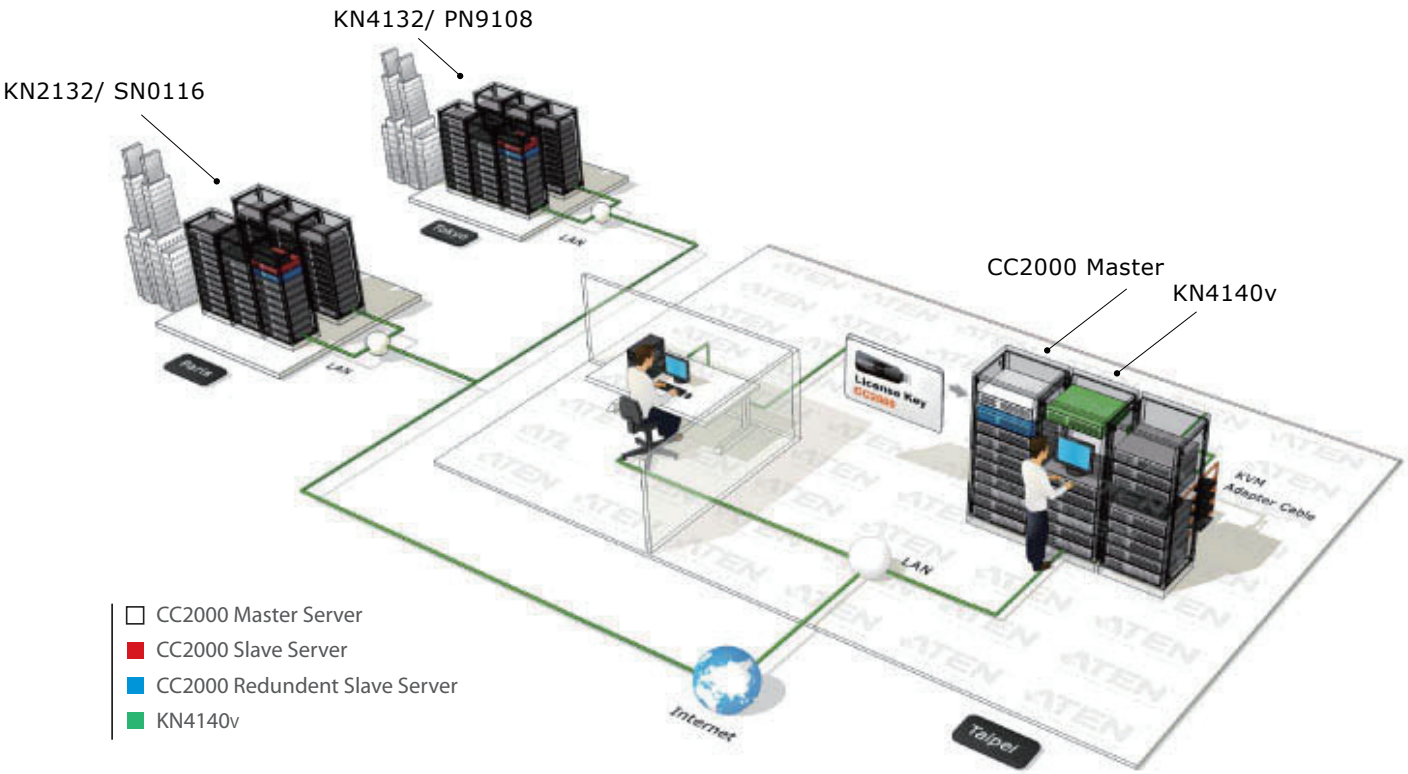
Powerful Security

- Powerful security features include both internal and external authentication – external authentication support includes LDAP, LDAPS, Active Directory, RADIUS, TACACS+, and NT Domain
- Option to force users of all CC managed devices to be authenticated through the CC – users cannot log in to the devices directly

- Compliant with the X.509 Digital Certificate Standard
- 128-bit SSL encryption of all data on the web
- Flexible session time-outs
- Configurable user and group permissions for server access and control
- Supports password protection, SAS 70 compliance for configurable amount of failed login attempts and user ID lock out parameters
- Devices can identify themselves by Name, MAC address, or IP in the browser
- IP and Mac filtering
- Private CA support

Server Management Features

- BIOS level support
- Flexible encryption design allows users to choose any combination of 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or Random for independent KB/Mouse, video, and virtual media data encryption
- Virtual Media
- Exit Macro support
- Mouse DynaSync- automatically synchronizes the local and remote mouse movements
- Panel Array Mode-simultaneous monitoring of the video output of the installations' servers
- Message Board for communication among remote users
- Scalable Video Display



Benefits

Virtualization	Virtualization lets offices consolidate their server rooms, such that fewer physical servers are needed to perform the same tasks. This not only saves hardware cost and power consumption, but also increases the efficiency and longevity of the company's network infrastructure.
Blade Server Support	We support the most popular blade chassis in the market, including: IBM blade chassis, Dell blade chassis, HP blade chassis, and other generic blade chassis.
Panel DynaArray™	View the output of multiple ports in individual panels on the same screen. The panel allows you to be flexible – open, move, resize and close displays easily. This enables you to monitor priority devices or cascade panels accordingly.
Centralized Control and Management	CC2000 management software provides centralized management of remotely distributed IT devices. This includes all ATEN/ALTUSEN "Over the NET" devices – such as Power Over the NET, Serial Over the NET, and KVM over the NET – as well as redirection to other generic devices.
Primary/Secondary Architecture	CC2000 management software uses a Primary/Secondary architecture to offer service redundancy with real-time database updating. With this feature, a Secondary server can automatically substitute for the Primary if the Primary server fails. Redundancy also means that should any of the CC2000 servers go down, its function and information is not lost – a redundant Secondary unit can provide the required management services until the downed unit comes back up. In addition, double redundancy ensures smooth, system management, since if a Secondary server in a remote site goes down, its redundant Secondary server will provide the required management services.
Easy to use interface	The CC2000 offers a user-friendly, intuitive, browser-based GUI for simplified access to IT equipment in global data centers and remote offices. The browser-based GUI offers a multilanguage interface to minimize user training time and increase productivity.
Managed Devices	The CC2000 allows users to create devices consisting of ports selected from Over the NET devices. Devices (routers, servers, ethernet switches, etc.), which can be accessed through multiple ports can have those ports combined in a Managed Device. This simplifies access and management since by accessing the Managed Device, the user doesn't have to access each of the ports individually.
Task Scheduling	Time and date scheduling of routine tasks, updates, configurations and file loading that can be performed across the installation couldn't be easier. Automatic scheduling of system and maintenance tasks include: exporting event logs, power controlling devices, upgrading the firmware of selected devices, and the backup of device configuration and account information.
Logging, Audits and Alerts	The CC2000 offers a wide array of flexible logging and reporting options with audit trails for diagnostics and troubleshooting. Powerful search functions and extensive sorting and filtering of log categories to quickly pinpoint the events you are searching for are also provided. Complete logs, as well as log search results can be exported for audit and analysis.

Specifications

Server Requirements

Systems that the CC2000 server will be installed on should meet the following requirements:

Hardware Requirements

- CPU: Pentium 4, 2.60 GHz or higher
- Memory: At least 512MB (1GB or more recommended)
- Hard drive: 500MB or more free space
- Ethernet: At least 1 Ethernet adapter (100Mbps or higher) – Giga LAN recommended

Operating System Requirements

- Windows: 2000, XP, 2000 Server, Server 2003, Server 2008, or Windows Vista with Java Runtime Environment (JRE) 6, Update 11, or higher (with the latest service package for each installed)
- Linux (with Java Runtime Environment (JRE) 6, Update 11, or higher)
  - Red Hat Enterprise Linux V. 4 and 5
  - Novell SUSE Enterprise Server 9 and 10

CC2000 Capable ATEN/ALTUSEN/IP Products

- CN8000, IP8000, CS1708i, CS1716i, KH1508i, KH1516i, KN9108, KN9116, KN2108, KN2116A, KN2132, KN4116, KN4132, KN2124v, KN2140v, KN4124v, KN4140v
- PN0108, PN9108
- SN0108, SN0116, SN3101

Browsers

Supported browsers for users that log into the CC2000 include the following:

Browser	Version
IE	6 and higher
Firefox	1.5 and higher
Mozilla	1.7 and higher
Netscape	8.1 and higher

USB License Key Specifications

Function		Key
Environment	Operating Temp.	0–40˚C
	Storage Temp.	-20–60˚ C
	Humidity	0–80% RH
Physical Properties	Composition	Metal and Plastic
	Weight	14 g
	Dimensions	8.36 x 2.77 x 1.37cm

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